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	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
1	IS&R	L1	483	(382/305).CCLS.	USPAT	2005/01/2 7 10:50			
2	BRS	L2	1948	((rectang$3 or shape$1 or polygon$2 or ellipse or circle$1 or diamond) near3 (search$3 or retriev$3))	USPAT	2005/01/2 7 10:52			
3	BRS	L3	25	1 and 2	USPAT	2005/01/2 7 10:54			
4	BRS	L4	681	2 same (direction$1 or orientation$1 or pose$1 or angle$1 or angular or rotat$3 or position$3)	USPAT	2005/01/2 7 10:55			
5	BRS	L5	59	4 same (noise or extraneous or clutter$1 or error$1 or distort$3 or skew$3)	USPAT	2005/01/2 7 10:56			
6	BRS	L6	0	1 and 5	USPAT	2005/01/2 7 10:56			
7	BRS	L7	23	5 same (compar$6 or match$3)	USPAT	2005/01/2 7 11:49			
8	BRS	L8	4	((polygon$1 or shape$1) near3 index$3) same (search$3 or retriev$3) same page	USPAT	2005/01/2 7 11:52			
9	BRS	L9	399	((polygon$1 or shape$1) near1 (search$3 or retriev$3))	USPAT	2005/01/2 7 11:52			

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
10	BRS	L10	65	9 same (match$3 or compar$3)	USPAT	2005/01/27 11:52			
11	BRS	L11	74	9 same (match$3 or compar$6)	USPAT	2005/01/27 11:53			
12	BRS	L12	17	11 same (error$1 or noise$1 or clutter$1 or extraneous or background)	USPAT	2005/01/27 11:53			
13	BRS	L13	13	11 same (orientation$1 or pose$1 or posing or direction$3 or angle$1 or angular or orient$6 or rotat$3)	USPAT	2005/01/27 11:57			
14	BRS	L14	0	12 same ((predefin$3 or predetermin$3) near3(orientation$1 or pose$1 or posing or direction$3 or angle$1 or angular or orient$6 or rotat$3))	USPAT	2005/01/27 11:58			
15	BRS	L15	9	2 same ((predefin$3 or predetermin$3) near3(orientation$1 or pose$1 or posing or direction$3 or angle$1 or angular or orient$6 or rotat$3))	USPAT	2005/01/27 11:59			
16	BRS	L16	1	"5673331".pn.	USPAT	2005/01/27 12:01			

Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
17 BRS	L17	40	(engineering near3 drawing$1) same (search$3 or retriev$3)	USPAT	2005/01/27 12:02			
18 BRS	L18	1	17 and mariam	USPAT	2005/01/27 12:04			
19 BRS	L19	167	database with shape$1 with (search$3 or retriev$3)	USPAT	2005/01/27 12:05			
20 BRS	L20	40	19 same (compar$6 or match$3)	USPAT	2005/01/27 12:05			
21 BRS	L21	0	20 same (shape$1 near3 (indice$1 or index$3))	USPAT	2005/01/27 12:06			
22 BRS	L22	11	20 and (shape$1 near3 (indice$1 or index$3))	USPAT	2005/01/27 12:11			
23 BRS	L23	2380	(shape$1 near2 (indice$1 or index$3))	USPAT	2005/01/27 14:29			
24 BRS	L24	16	23 same database	USPAT	2005/01/27 12:12			
25 BRS	L25	5	24 same (search$3 or brows$3 or retriev$3)	USPAT	2005/01/27 14:25			
26 BRS	L26	0	23 same title	USPAT	2005/01/27 14:25			
27 BRS	L27	24	9 and title	USPAT	2005/01/27 14:25			
28 BRS	L28	8	27 and border$1	USPAT	2005/01/27 14:27			

Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
29 BRS	L29	195	2 and ((extract$3 or remov$5 or eliminat$4) near5 (title or border$1 or noise or unnecessary))	USPAT	2005/01/2 7 14:28			
30 BRS	L30	2	29 and (shape$1 near2 (indice$1 or index$3))	USPAT	2005/01/2 7 14:33			
31 BRS	L31	967	index$3 near1 shape$1	USPAT	2005/01/2 7 14:33			
32 BRS	L32	40	31 same ((orient$6 or direction$1 or angular or angle or pose) near5 shape$1)	USPAT	2005/01/2 7 14:34			
33 BRS	L33	0	32 same (noise$6 or background or other or unnecessar$3 or clutter$1 or background or extraneous) near5 (remov$3 or eliminat$5 or free or discard$3)	USPAT	2005/01/2 7 14:36			
34 BRS	L34	0	32 same ((noise$6 or background or other or unnecessar$3 or clutter$1 or background or extraneous) near5 (remov$3 or eliminat$5 or free or discard$3))	USPAT	2005/01/2 7 14:36			

Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
35	BRS	L35	0	32 same (noise$6 or background or other or unnecessar$3 or clutter$1 or background or extraneous)	USPAT	2005/01/27 14:37			
36	BRS	L36	1	32 same (digit$7 or bitmap$3)	USPAT	2005/01/27 14:38			
37	BRS	L37	13	31 same extract$4	USPAT	2005/01/27 14:43			
38	BRS	L38	34	31 same (noise or extraneous or other)	USPAT	2005/01/27 14:43			
39	BRS	L39	3	38 same (orient$6 or direction$1 or pose or angle or angular)	USPAT	2005/01/27 15:08			
40	BRS	L40	0	38 same title	USPAT	2005/01/27 14:45			
41	BRS	L41	0	38 and title	USPAT	2005/01/27 14:45			
42	BRS	L42	495	border$1 same title$1	USPAT	2005/01/27 14:45			
43	BRS	L43	1	31 and 42	USPAT	2005/01/27 15:07			
44	BRS	L44	0	shape* near1 index$3	USPAT	2005/01/27 15:07			
45	BRS	L45	967	shape$1 near1 index$3	USPAT	2005/01/27 15:07			
46	BRS	L46	71	45 same ((orient$6 or direction$1 or pose or angle or angular) near10 shape$1)	USPAT	2005/01/27 15:09			

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
47	BRS	L47	1	46 same (ambiguit$5 or noise or extraneous or background or error$1 or unnecessar* or (other near1 shape$1))	USPAT	2005/01/27 15:10			
48	BRS	L48	0	1 and 46	USPAT	2005/01/27 15:11			
49	BRS	L49	13	46 and ((retriev$3 or search$3 or match$3) near10 shape$1)	USPAT	2005/01/27 15:12			
50	BRS	L50	10	45 same (database or library)	USPAT	2005/01/27 15:18			
51	BRS	L51	25	("3967241"|"4183013"|"4783829"|"4933865"|"5018214"|"5113451"|"5222159"|"5335290"|"5351310"|"5428727"|"5465304"|"5465353"|"5533186"|"5586197"|"5761385"|"5838820"|"5890171"|"5892843"|"5911139"|"5933546"|"5974169"|"6072904"|"6111984"|"6163622").PN.	USPAT	2005/01/27 15:19			
52	IS&R	L52	9352	(707/1-10).CCLS.	USPAT	2005/01/27 15:44			
53	BRS	L53	18	45 and 52	USPAT	2005/01/27 15:44			

Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Err ors
1 IS&R	L1	3233	(382/164,173,176,181,1 90,197,199,203,209,218 ,224,305).CCLS.	USPAT	2005/02/0 1 14:08			
2 IS&R	L2	387	(358/403).CCLS.	USPAT	2005/02/0 1 14:08			
3 IS&R	L3	9385	(707/1-10).CCLS.	USPAT	2005/02/0 1 14:09			

Terms used **shape** **indexing**   Found **29,799** of **148,786**

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1 Efficient retrieval of similar shapes   ◼

Davood Rafiei, Alberto O. Mendelzon
August 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 1
Full text available: 📄 pdf(192.55 KB)   Additional Information: full citation, abstract, index terms

We propose an indexing technique for the fast retrieval of objects in 2D images based on similarity between their boundary shapes. Our technique is robust in the presence of noise and supports several important notions of similarity including optimal matches irrespective of variations in orientation and/or position. Our method can also handle size-invariant matches using a normalization technique, although optimality is not guaranteed here. We implemented our method and performed experiments on ...

Keywords: Fourier descriptors, Image databases, Shape retrieval, Similarity queries, Similarity retrieval

2 Brave new topics - session 4: multimedia in life and health sciences: Shape based   ◼
retrieval in NHANES II

Hemant D. Tagare, Xiaoning Qian, Robert K. Fulbright, Rodney Long, Sameer Antani
October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**
Full text available: 📄 pdf(1.17 MB)   Additional Information: full citation, abstract, references, index terms

NHANES II is a nationally significant medical image database of spine x-ray images located at the National Library of Medicine. A key feature of spine disease in these images is the presence of osteoytes which are bony processes that alter the shape of vertebrae. Shapes of vertebrae are conveniently described in shape spaces which are non-linear manifolds. Indexing in such non-linear manifolds is an open problem. In this paper, we describe a technique of embedding shape manifolds in Euclidean ...

Keywords: image databases, shape indexing, shape space

3 Multimedia Information Processing: Finding similar images quicky using object shapes   ◼
Heng Tao Shen
October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

h   c   g   e   cf   c

Full text available: pdf(1.18 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Retrieving images from a large image collection has been an active area of research. Most of the existing works have focused on content representation. In this paper, we address the issue of identifying relevant images quickly. This is important in order to meet the users' performance requirements. We propose a framework for fast image retrieval based on object shapes extracted from objects within images. The framework builds a hierarchy of approximations on object shapes such that shape represe ...

Keywords: partitioning, shape indexing, shape representation, shape-based image retrieval

4 <u>A retrieval technique for similar shapes</u>
H. V. Jagadish
April 1991 **ACM SIGMOD Record , Proceedings of the 1991 ACM SIGMOD international conference on Management of data**, Volume 20 Issue 2
Full text available: pdf(1.04 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

5 <u>Database and digital library technologies: Shape-based retrieval of similar subsequences in time-series databases</u>
Sang-Wook Kim, Jeehee Yoon, Sanghyun Park, Tae-Hoon Kim
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**
Full text available: pdf(650.81 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

This paper deals with the problem of *shape-based retrieval* in time-series databases. The shape-based retrieval is defined as the operation that searches for the (sub)sequences whose shapes are similar to that of a given query sequence. In this paper, we propose an effective and efficient approach for shape-based retrieval of subsequences. We first introduce a new similarity model for shape-based retrieval that supports various combinations of transformations such as shifting, scaling, mov ...

Keywords: indexing, shape-based retrieval, similarity search, time-series databases

6 <u>Searching in high-dimensional spaces: Index structures for improving the performance of multimedia databases</u>
Christian Böhm, Stefan Berchtold, Daniel A. Keim
September 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 3
Full text available: pdf(1.39 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

During the last decade, multimedia databases have become increasingly important in many application areas such as medicine, CAD, geography, and molecular biology. An important research issue in the field of multimedia databases is the content-based retrieval of similar multimedia objects such as images, text, and videos. However, in contrast to searching data in a relational database, a content-based retrieval requires the search of similar objects as a basic functionality of the database system ...

Keywords: Index structures, indexing high-dimensional data, multimedia databases, similarity search

7
<u>On defining application-specific high-level array operations by means of shape-</u>

h   c   g e   cf   c

invariant programming facilities

Sven-Bodo Scholz

July 1998 **ACM SIGAPL APL Quote Quad , Proceedings of the APL98 conference on Array processing language**, Volume 29 Issue 3

Full text available: pdf(583.03 KB)   Additional Information: full citation, abstract, references, citings, index terms

Most of the existing high-level array-processing languages support a fixed set of pre-defined array *operations* and a few higher-order functions for constructing new array operations from existing ones. In this paper, we discuss a more general approach made feasible by SAC (for Single Assignement C), a functional variant of C.SAC provides a meta-level language construct called WITH-loop which may be considered a sophisticated variant of the FORALL-loops ...

Keywords: compilation, high-level array operations, meta-level programming, performance comparison, shape-invariant programming

8 Combining multi-visual features for efficient indexing in a large image database

Anne H. H. Ngu, Quan Z. Sheng, Du Q. Huynh, Ron Lei

April 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 4

Full text available: pdf(493.09 KB)   Additional Information: full citation, abstract, index terms

The optimized distance-based access methods currently available for multidimensional indexing in multimedia databases have been developed based on two major assumptions: a suitable distance function is known a priori and the dimensionality of the image features is low. It is not trivial to define a distance function that best mimics human visual perception regarding image similarity measurements. Reducing high-dimensional features in images using the popular principle component analysis (PCA) mi ...

Keywords: High-dimensional indexing, Image retrieval, Neural network

9 Declarative definition of group indexed data structures and approximation of their domains

Jean-Louis Giavitto, Olivier Michel

September 2001 **Proceedings of the 3rd ACM SIGPLAN international conference on Principles and practice of declarative programming**

Full text available: pdf(363.47 KB)   Additional Information: full citation, abstract, references, index terms

We introduce a new high-level programming abstraction which extends the concept of data collection. The new construct, called GBF (for Group Based Data-Field), is based on an algebra of index sets, called a *shape*, and a functional extension of the array type, the *field* type. Shape constructions are based on group theory and put the emphasis on the logical neighborhood of the data structure elements. A field is a function from a shape to some set of values. In this study, we focus o ...

Keywords: Cayley graph, data-field, extension analysis, recursive definition of data-structures

10 Shape matching using edit-distance: an implementation

Philip N. Klein, Thomas B. Sebastian, Benjamin B. Kimia

January 2001 **Proceedings of the twelfth annual ACM-SIAM symposium on Discrete algorithms**

Full text available: Additional Information: full citation, abstract, references, citings, index

🗎 pdf(801.58 KB)   terms

We report on our experience with the implementation of an algorithm for comparing shapes by computing the edit-distance between their medial axes. A shape-comparison method that is robust to various visual transformations has several applications in computer vision, including organizing and querying an image database, and object recognition.

There are two components to research on this problem, mathematical formulation of the shape-comparison problem and the computational solution met ...

11 Geometric continuity, shape parameters, and geometric constructions for Catmull-Rom splines
Tony D. DeRose, Brian A. Barsky
January 1988 **ACM Transactions on Graphics (TOG)**, Volume 7 Issue 1

Full text available: 🗎 pdf(2.31 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Catmull-Rom splines have local control, can be either approximating or interpolating, and are efficiently computable. Experience with Beta-splines has shown that it is useful to endow a spline with shape parameters, used to modify the shape of the curve or surface independently of the defining control vertices. Thus it is desirable to construct a subclass of the Catmull-Rom splines that has shape parameters. We present such a class, some members of which are inte ...

12 Indexing and merging in APL
J. A. Gerth, D. L. Orth
December 1987 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL**, Volume 18 Issue 2

Full text available: 🗎 pdf(565.17 KB)   Additional Information: full citation, abstract, references, citings, index terms

Mathematically, an array may be usefully viewed as a function, in this particular case, as a function of its indices. A proposal is made for an operator which derives such a function for its array operand. The proposal is discussed in the context of a review of indexing constructs in various APL systems.

13 Nonpositional indexing for a relational data base
J. Philip Benkard
July 1982 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL**, Volume 13 Issue 1

Full text available: 🗎 pdf(631.28 KB)   Additional Information: full citation, abstract, references, citings, index terms

Extensions of the set of character scalars and of the domain of the INDEX function lead to use of lexical keys for nonpositional indexing of APL arrays. Using keys derived from the items of an array provides an approach to content addressing. When such keys are used to address rows of a matrix representing a relation in a relational data base, they serve as primary keys. To represent a secondary key, the matrix must be partitioned into a vector of appropriate submatrices.

14 A dictionary of APL
Kenneth E. Iverson
September 1987 **ACM SIGAPL APL Quote Quad**, Volume 18 Issue 1

Full text available: 🗎 pdf(3.34 MB)   Additional Information: full citation, citings, index terms

h   c   g e   cf   c

15 <u>Locally adaptive dimensionality reduction for indexing large time series databases</u>
Kaushik Chakrabarti, Eamonn Keogh, Sharad Mehrotra, Michael Pazzani
June 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 2

Full text available: pdf(1.48 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Similarity search in large time series databases has attracted much research interest recently. It is a difficult problem because of the typically high dimensionality of the data. The most promising solutions involve performing dimensionality reduction on the data, then indexing the reduced data with a multidimensional index structure. Many dimensionality reduction techniques have been proposed, including Singular Value Decomposition (SVD), the Discrete Fourier transform (DFT), and the Discrete ...

Keywords: Dimensionality reduction, indexing, time-series similarity retrieval

16 <u>A new array indexing system for APL</u>
G. R. Lewis
June 1975 **Proceedings of seventh international conference on APL**

Full text available: pdf(425.52 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The indexing or subscription function in APL has long been recognised as being anomalous. Furthermore its inconsistencies can give rise to ill-defined situations. A system of new and extended functions is proposed that could provide a more consistent basis for array element selection in APL. The functions provide all the capabilities of subscription but are more general and appear to be more fundamental.

17 <u>A vertex-based shape coding approach for similar shape retrieval</u>
Jia Wang, Raj Acharya
February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**

Full text available: pdf(311.18 KB)   Additional Information: <u>full citation</u>, <u>citings</u>, <u>index terms</u>

Keywords: global and local features, shape retrieval, vertex-based shape coding

18 <u>Database session 2: querying high-dimensional data II: Dimensionality reduction using magnitude and shape approximations</u>
Ümit Y. Ogras, Hakan Ferhatosmanoglu
November 2003 **Proceedings of the twelfth international conference on Information and knowledge management**

Full text available: pdf(193.50 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

High dimensional data sets are encountered in many modern database applications. The usual approach is to construct a summary of the data set through a lossy compression technique, and use this lower dimensional synopsis to provide fast, approximate answers to the queries. In this paper, we develop a novel dimensionality reduction technique based on partitioning the high dimensional vector space into orthogonal subspaces. First, we find a relation between the Euclidian distance of two n-dimensio ...

Keywords: high dimensional data, shape approximation, similarity search

19 <u>Poster Session: Using shape distributions to compare solid models</u>
Cheuk Yiu Ip, Daniel Lapadat, Leonard Sieger, William C. Regli

h   c   g e   cf   c

June 2002 **Proceedings of the seventh ACM symposium on Solid modeling and applications**

Full text available: 📄 pdf(237.71 KB)   Additional Information: full citation, abstract, references, citings, index terms

Our recent work has described how to use feature and topology in-formation to compare 3-D solid models. In this work we describe a new method to compare solid models based on shape distributions. Shape distribution functions are common in the computer graphics and computer vision communities. The typical use of shape dis-tributions is to compare 2-D objects, such as those obtained from imaging devices (cameras and other computer vision equipment). Recent work has applied shape distribution metri ...

Keywords: 3D search, shape matching, shape recognition, solid model databases

20 Paging as a "language processing" task   ■

Michael W. Condry

January 1981 **Proceedings of the 8th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**

Full text available: 📄 pdf(1.19 MB)   Additional Information: full citation, abstract, references

This paper examines "language processing" approach to paging where the of the programming language compiler or interpreter is responsible for generating the necessary control code for the page management of a program. We explore this idea for *APL* and describe an approach to incorporating in a program the necessary paging functions. The semantics of *APL* computation are examined to observe how paging operations can be incorporated into the computation. We discuss a model of data acce ...

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Terms used **shape** **indexing**   Found **29,799** of **148,786**

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21 A search engine for 3D models
Thomas Funkhouser, Patrick Min, Michael Kazhdan, Joyce Chen, Alex Halderman, David Dobkin, David Jacobs
January 2003 **ACM Transactions on Graphics (TOG)**, Volume 22 Issue 1

Full text available: 📄 pdf(7.91 MB)   Additional Information: full citation, abstract, references, citings, index terms

As the number of 3D models available on the Web grows, there is an increasing need for a search engine to help people find them. Unfortunately, traditional text-based search techniques are not always effective for 3D data. In this article, we investigate new shape-based search methods. The key challenges are to develop query methods simple enough for novice users and matching algorithms robust enough to work for arbitrary polygonal models. We present a Web-based search engine system that support ...

Keywords: Search engine, shape matching, shape representation, shape retrieval

22 Locally adaptive dimensionality reduction for indexing large time series databases
Eamonn Keogh, Kaushik Chakrabarti, Michael Pazzani, Sharad Mehrotra
May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data**, Volume 30 Issue 2

Full text available: 📄 pdf(300.08 KB)   Additional Information: full citation, abstract, references, citings, index terms

Similarity search in large time series databases has attracted much research interest recently. It is a difficult problem because of the typically high dimensionality of the data.. The most promising solutions involve performing dimensionality reduction on the data, then indexing the reduced data with a multidimensional index structure. Many dimensionality reduction techniques have been proposed, including Singular Value Decomposition (SVD), the Discrete Fourier transform (DFT), and the Discr ...

Keywords: content-based retrieval, dimensionality reduction, indexing

23 Parallel scientific computing in PROMOTER: on the interface between appliction modelling and language design
Matthias Besch, Gerd Haber, Matthias Wilhelmi
February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**

Full text available: 📄 pdf(663.87 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

Keywords: data parallelism, high-level programming languages, parallel languages, parallel programming

24 <u>Shape distributions</u>

Robert Osada, Thomas Funkhouser, Bernard Chazelle, David Dobkin
October 2002 **ACM Transactions on Graphics (TOG)**, Volume 21 Issue 4

Full text available: 📄 pdf(3.46 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Measuring the similarity between 3D shapes is a fundamental problem, with applications in computer graphics, computer vision, molecular biology, and a variety of other fields. A challenging aspect of this problem is to find a suitable shape signature that can be constructed and compared quickly, while still discriminating between similar and dissimilar shapes.In this paper, we propose and analyze a method for computing shape signatures for arbitrary (possibly degenerate) 3D polygonal models. The ...

Keywords: Shape analysis, shape representation

25 <u>A method for parallel program generation with an application to the Booster language</u>

Edwin M. Paalvast, Arjan J. van Gemund, Henk J. Sips
June 1990 **ACM SIGARCH Computer Architecture News , Proceedings of the 4th international conference on Supercomputing**, Volume 18 Issue 3

Full text available: 📄 pdf(1.50 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper describes a translation method for the automatic parallelization of programs based on a separately specified representation of the data. The method unifies the concept of data-representation on the algorithm-level as well as machine-level, based on the so-called view concept. It is shown that given a decomposition of the data, application of the translation method to the view-based Booster programming language results in efficient SPMD-code for distributed- as we ...

26 <u>Technical session 8: compression, streaming, and retrival of 3D objects: A comparative study on attributed relational gra matching algorithms for perceptual 3-D shape descriptor in MPEG-7</u>

Duck Hoon Kim, Il Dong Yun, Sang Uk Lee
October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Full text available: 📄 pdf(193.75 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Nowadays, the demand on user-friendly querying interface such as query-by-sketch and query-by-editing is an important issue in the content-based retrieval system for 3-D object database. Especially in MPEG-7, P3DS (Perceptual 3-D Shape) descriptor has been developed in order to provide the user-friendly querying, which can not be covered by an existing international standard for description and browsing of 3-D object database. Since the P3DS descriptor is based on the part-based representatio ...

Keywords: attributed relational gra generation and matching, mpeg-7, perceptual 3-D shape descriptor, performance evaluation

h   c   g e   cf   e   h e   e   g   e   h e

27 Recursive data structures in APL
W. E. Gull, M. A. Jenkins
February 1979 **Communications of the ACM**, Volume 22 Issue 2

Full text available: 📄 pdf(1.66 MB)   Additional Information: full citation, abstract, references, citings

A mathematical study of three approaches for defining nested arrays in APL is presented. Theorems exhibiting the relationships between the definitional systems are given and illustrated through graph representations. One of the approaches is used to define an APL array to be a recursive data structure equivalent to a tree structure in which all data is stored at the leaves as homogeneous arrays of numbers and characters. An extension of APL is proposed that includes new primitive functions ...

Keywords: APL arrays, data-driven algorithms, nested arrays, recursive data structures, theory of arrays, trees

28 Array morphology
Robert Bernecky
September 1993 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL**, Volume 24 Issue 1

Full text available: 📄 pdf(1.02 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Array morphology is the study of the form, structure, and evolution of arrays. An *array annotation* for a program written in an applicative array language is an abstract syntax tree for the program, amended with information about the arrays created by that program. Array notations are useful in the production of efficient compiled code for applicative array programs. Array morphology is shown to be an effective compiler writer's tool. Examples of an array annotator in action are pre ...

29 Indexing very high-dimensional sparse and quasi-sparse vectors for similarity searches
Changzhou Wang, X. Sean Wang
April 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 4

Full text available: 📄 pdf(359.20 KB)   Additional Information: full citation, abstract, index terms

Similarity queries on complex objects are usually translated into searches among their feature vectors. This paper studies indexing techniques for very high-dimensional (e.g., in hundreds) vectors that are sparse or quasi-sparse, i.e., vectors *each* having only a small number (e.g., ten) of non-zero or significant values. Based on the R-tree, the paper introduces the xS-tree that uses lossy compression of bounding regions to guarantee a reasonable minimum fan-out within the allocated stora ...

Keywords: High-dimensional indexing structure, Lossy compression, Quasi-sparse vector, Similarity search, Sparse vector

30 Shape representation for image retrieval
Marinette Bouet, Ali Khenchaf, Henri Briand
October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 2)**

Full text available: 📄 pdf(636.22 KB)   Additional Information: full citation, references, index terms

31 Video II: A hybrid system for affine-invariant trajectory retrieval
Faisal Bashir, Ashfaq Khokhar, Dan Schonfeld

h   c   g e   cf   e   h e   e   g   e   h e

October 2004 **Proceedings of the 6th ACM SIGMM international workshop on Multimedia information retrieval**

Full text available: 📄 pdf(308.66 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

This paper studies efficient feature spaces for content based indexing and retrieval of object motion trajectories. Taking object trajectory data as input, we first investigate highly compact affine invariant feature spaces based on Fourier Descriptors (FD) and Principal Component Analysis (PCA) techniques. Based on these feature spaces, we then develop a hybrid content based indexing and retrieval system that employs a two-stage matching scheme. The first stage uses affine-invariant Fourier ...

Keywords: affine-invariant trajectory descriptors, curvature scale space, fourier descriptor, motion based indexing and retrieval, principal component analysis

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32 <u>Best Paper: Early experiences with a 3D model search engine</u>   ▮

Patrick Min, John A. Halderman, Michael Kazhdan, Thomas A. Funkhouser

March 2003 **Proceeding of the eighth international conference on 3D Web technology**

Full text available: 📄 pdf(1.92 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

New acquisition and modeling tools make it easier to create 3D models, and affordable and powerful graphics hardware makes it easier to use them. As a result, the number of 3D models available on the web is increasing rapidly. However, it is still not as easy to find 3D models as it is to find, for example, text documents and images. What is needed is a \3D model search engine," a specialized search engine that targets 3D models. We created a prototype 3D model search engine to investigate the d ...

Keywords: 3D model database, shape matching, shape query interfaces, specialized search engine

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33 <u>Mixed functions</u>   ▮

December 1983 **ACM SIGAPL APL Quote Quad**, Volume 14 Issue 2

Full text available: 📄 pdf(881.13 KB)   Additional Information: <u>full citation</u>

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34 <u>Theory of keyblock-based image retrieval</u>   ▮

April 2002 **ACM Transactions on Information Systems (TOIS)**, Volume 20 Issue 2

Full text available: 📄 pdf(2.14 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>, <u>review</u>

The success of text-based retrieval motivates us to investigate analogous techniques which can support the querying and browsing of image data. However, images differ significantly from text both syntactically and semantically in their mode of representing and expressing information. Thus, the generalization of information retrieval from the text domain to the image domain is non-trivial. This paper presents a framework for information retrieval in the image domain which supports content-based q ...

Keywords: clustering, codebook, content-based image retrieval, keyblock

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35 <u>Extensions of variables and indexing conventions</u>   ▮

R. G. Selfridge

April 1978 **Proceedings of the 16th annual Southeast regional conference**

Full text available: ⬛ pdf(151.27 KB)   Additional Information: full citation, references

36 Multi-resolution indexing for shape images   ⬛
Tzi-cker Chiueh, Allen Ballman, Kevin Kreeger
November 1998 **Proceedings of the seventh international conference on Information and knowledge management**
Full text available: ⬛ pdf(1.38 MB)   Additional Information: full citation, references, citings, index terms

37 Image retrieval by appearance   ⬛
S. Ravela, R. Manmatha
July 1997 **ACM SIGIR Forum , Proceedings of the 20th annual international ACM SIGIR conference on Research and development in information retrieval,** Volume 31 Issue SI
Full text available: ⬛ pdf(1.47 MB)   Additional Information: full citation, references, citings, index terms

38 A cost model for query processing in high dimensional data spaces   ⬛
Christian Böhm
June 2000 **ACM Transactions on Database Systems (TODS)**, Volume 25 Issue 2
Full text available: ⬛ pdf(362.22 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

During the last decade, multimedia databases have become increasingly important in many application areas such as medicine, CAD, geography, and molecular biology. An important research topic in multimedia databases is similarity search in large data sets. Most current approaches that address similarity search use the feature approach, which transforms important properties of the stored objects into points of a high-dimensional space (feature vectors). Thus, similarity search is transformed ...

Keywords: cost model, multidimensional index

39 Building a scaleable geo-spatial DBMS: technology, implementation, and evaluation   ⬛
Jignesh Patel, JieBing Yu, Navin Kabra, Kristin Tufte, Biswadeep Nag, Josef Burger, Nancy Hall, Karthikeyan Ramasamy, Roger Lueder, Curt Ellmann, Jim Kupsch, Shelly Guo, Johan Larson, David De Witt, Jeffrey Naughton
June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data**, Volume 26 Issue 2
Full text available: ⬛ pdf(1.58 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents a number of new techniques for parallelizing geo-spatial database systems and discusses their implementation in the Paradise object-relational database system. The effectiveness of these techniques is demonstrated using a variety of complex geo-spatial queries over a 120 GB global geo-spatial data set.

40 A tree-edit-distance algorithm for comparing simple, closed shapes   ⬛
Philip Klein, Srikanta Tirthapura, Daniel Sharvit, Ben Kimia
February 2000 **Proceedings of the eleventh annual ACM-SIAM symposium on Discrete algorithms**
Full text available: ⬛ pdf(817.16 KB)   Additional Information: full citation, references, citings, index terms

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1 **A fast binary motion estimation algorithm for MPEG-4 shape coding**
Tsung-Han Tsai; Chia-Pin Chen;
Circuits and Systems for Video Technology, IEEE Transactions on , Volume:
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[Abstract]   [PDF Full-Text (352 KB)]   **IEEE JNL**

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2 **Matching and retrieval of distorted and occluded shapes using dynaı programming**
Petrakis, E.G.M.; Diplaros, A.; Milios, E.;
Pattern Analysis and Machine Intelligence, IEEE Transactions on , Volume:
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3 **An efficient search strategy for block motion estimation using imagе features**
Yui-Lam Chan; Wan-Chi Siu;
Image Processing, IEEE Transactions on , Volume: 10 , Issue: 8 , Aug. 2001
Pages:1223 - 1238

[Abstract]   [PDF Full-Text (392 KB)]   **IEEE JNL**

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4 **Retrieval by shape similarity with perceptual distance and effective indexing**
Berretti, S.; Del Bimbo, A.; Pala, P.;
Multimedia, IEEE Transactions on , Volume: 2 , Issue: 4 , Dec. 2000
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5 **A multistep approach for shape similarity search in image databases**
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Mehrotra, R.; Gary, J.E.;
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9 **Retrieval of aerosol optical properties from multi-angle satellite ima**
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12 Shape-similarity search of 3D models by using enhanced shape functions
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Shape Modeling Applications, 2004. Proceedings , 7-9 June 2004
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15 A comparison of shape constrained facial feature detectors
Cristinacce, D.; Cootes, T.F.;
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L3	shape with (search$3 or retriev$3 find$3) with (reference or database or library or stored or prestored or model or template)	747	L3
L4	L3 same (index$3 near1 shape$1)	9	L4
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L7	L6 same (center$3 or centroid)	506	L7

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L8	L7 same (noise or error or distort$3 or background or extraneous)	42	L8
L9	L8 same (search$3 or quer$3 or retriev$3)	8	L9

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L10	((polygon$3 or circle or diamond or ellipse or shape) near2 (search$3 or retriev$3)) same (compar$6 or match$3)	166	L10
L11	L10 same (angle or angular or orient$6 or pose or direction or position$3 or rotat$3)	53	L11
L12	L11 same (noise or error or distort$4 or deviat$3 or extraneous or backround or clutter)	16	L12
L13	l10 and ((discard$3 or remov$3 or filter$3 or eliminat$3) near4 (noise or error or distort$4 or deviat$3 or extraneous or backround or clutter))	37	L13
L14	L13 and ((angle or angular or orient$6 or pose or direction or position$3 or rotat$3) near5 (shape or circle or ellipse or polygon$2 or diamond))	19	L14

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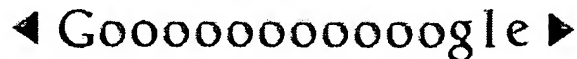
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